

# **Zoonotic Diseases**

## Sukdeb Nandi

Principal Scientist
Centre for Animal Disease Research and Diagnosis
Indian Veterinary Research Institute
Izatnagar - 243 122, U.P.



## **NEW INDIA PUBLISHING AGENCY**

New Delhi — 110 034



#### **NEW INDIA PUBLISHING AGENCY**

101 , Vikas Surya Plaza, CU Block, LSC Market Pitam Pura, New Delhi 110 034, India Phone: + 91 (11)27 34 17 17 Fax: + 91(11) 27 34 16 16

Email: info@nipabooks.com Web: www.nipabooks.com

Feedback at feedbacks@nipabooks.com

© 2014, Publisher

ISBN: 978-93-81450-96-3

All rights reserved, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the publisher or the copyright holder.

This book contains information obtained from authentic and highly regarded sources. Reasonable efforts have been made to publish reliable data and information, but the author/s, editor/s and publisher cannot assume responsibility for the validity of all materials or the consequences of their use. The author/s, editor/s and publisher have attempted to trace and acknowledge the copyright holders of all material reproduced in this publication and apologize to copyright holders if permission and acknowledgements to publish in this form have not been taken. If any copyright material has not been acknowledged please write and let us know so we may rectify it, in subsequent reprints.

Trademark notice: Presentations, logos (the way they are written/presented), in this book are under the trademarks of the publisher and hence, if copied/resembled the copier will be prosecuted under the law.

Composed and Designed by NIPA

## Contents

Dedication	U
Prefacevi	ii
A: Viral Diseases	
Rabies	1
Avian Influenza or Birdflu	39
Swine Influenza or Swineflu	59
Dengue	73
Chikungunya	93
Japanese Encephalitis1	01
Hendra1	09
Nipah Virus Infections in Humans and Pigs1	15
Hantavirus Infections1	27
Marburg and Ebola Virus Disease1	37
Crimean Congo Hemorrhagic Fever (CCHF)1	45
B: Bacterial Diseases	
Anthrax1	55
Tuberculosis1	63
Brucellosis1	81
Colibacillosis1	95
Glanders2	05
Leptospirosis2	15
	A: Viral Diseases  Rabies

## x Contents

18.	Listeriosis	235
19.	Salmonellosis (Paratyphoid)	245
20.	Tetanus (Lock jaw)	253
21.	Q fever	261

Readership: The book will be useful in virology, veterinary microbiology, veterinary pathology and diagnostics, food microbiology, food borne diseases and would be beneficial to all veterinarians as a whole.

# zoonotic

The book is written in a very simple and lucid manner so that everybody can read and easily understand it properly. It contains two sections:

- viral diseases and bacterial diseases with lot of recent references.
- book will provide detailed and up to date information of all the zoonotic diseases of bacterial and viral origins affecting human and animal health globally.
- Finally, all can enrich their knowledge on zoonotic diseases from the book and can clarify any doubts and concepts very easily and confidently.

The book is useful for scientists, teachers, students, officers, diagnosticians, laboratory technicians, public health professionals and medical personnel associated directly or indirectly with research, teaching, training, extension, diagnosis, epidemiology and control of zoonotic and food borne diseases.

**S.Nandi** has been associated with teaching Veterinary Virology in the Deemed University, Indian Veterinary Research Institute for last 21 years.



#### **NEW INDIA PUBLISHING AGENCY**

101, Vikas Surya Plaza, CU Block, L.S.C.Market Pitam Pura, New Delhi-110 034, India

Tel.: +91(11) 27341717, Fax: +91(11) 27341616

E-mail: info@nipabooks.com Web: www.nipabooks.com

